



### PATENT COOPERATION TREATY

### **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION R

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference ASHL,001QPC	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/US 03/35029	International filing date (day/mon 04.11.2003	nth/year) Priority date (day/month/year) 04.11.2002			
International Patent Classification (IPC) or both national classification and IPC A61L2/025					
Applicant ASHLAND INC. et al.					
This international preliminary examination report has been prepared by this International Preliminary Examining     Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 6 sheets, including this cover sheet.					
hoon amended and are the	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of 3 sheets.					
This report contains indications re	stating to the following items:				
	sating to the following tens.				
I ⊠ Basis of the opinion II □ Priority					
	oninion with regard to novelty	inventive step and industrial applicability			
	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
V 🕅 Reasoned statement	<ul> <li>□ Lack of unity of invention</li> <li>☑ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> </ul>				
VI   Certain documents ci	ted				
VII   Certain defects in the					
VIII					
Date of submission of the demand		of completion of this report			
01.06.2004		3.2005			
Name and mailing address of the internatio preliminary examining authority:	nal Author	orized Officer			
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### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

I. Basis of the report

International application No.

PCT/US 03/35029

1.	44	With regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):		
	Des	cription, Pages		
	1-16	3	as originally filed	
	٠	Nb.a.ma		••
	Clai	ms, Numbers	the of de cood with latter of OO	11 2004
	1-25	5	received on 25.11.2004 with letter of 23	.11.2004
	Dra	wings, Sheets		¥
	1/8-		as originally filed	
2.	<ol><li>With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.</li></ol>			ble or furnished to this Authority in the e indicated under this item.
	The	se elements were available (	or furnished to this Authority in the followi	ing language: , which is:
		the language of a translation	n furnished for the purposes of the interna	ational search (under Rule 23.1(b)).
		the language of publication	of the international application (under Ru	le 48.3(b)).
		the language of a translation Rule 55.2 and/or 55.3).	n furnished for the purposes of internation	nal preliminary examination (under
3.	Witl inte	n regard to any <b>nucleotide</b> a rnational preliminary examin	and/or amino acid sequence disclosed in ation was carried out on the basis of the	n the international application, the sequence listing:
		contained in the internation	al application in written form.	
		☐ filed together with the international application in computer readable form.		
		196		
		in the international applicati	sequently furnished written sequence listi ion as filed has been furnished.	
		The statement that the infolisting has been furnished.	rmation recorded in computer readable fo	orm is identical to the written sequence

the description,

the claims, ☐ the drawings,

4. The amendments have resulted in the cancellation of:

pages: Nos.:

sheets:

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International application No.

PCT/US 03/35029

5. 🗆		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet conta report.)	ining s	uch amendi	ments must be referred to under item 1 and annexed to this			
6.	Add	litional observations, if necessa	ry:					
111.	Noi	n-establishment of opinion w	ith reg	ard to nove	elty, inventive step and industrial applicability			
1.	The obv	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ious), or to be industrially applicable have not been examined in respect of:						
		the entire international application,						
	$\boxtimes$	claims Nos. 14-25						
		because:						
	Ø	the said international application, or the said claims Nos. 14-25 (IA) relate to the following subject matter which does not require an international preliminary examination (specify):						
		see separate sheet						
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
		the claims, or said claims Nos could be formed.	. are s	o inadequat	ely supported by the description that no meaningful opinion			
		no international search report has been established for the said claims Nos.						
2.	or a	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative tructions:						
		the written form has not been furnished or does not comply with the Standard.						
		the computer readable form h	as not	been furnish	ned or does not comply with the Standard.			
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; ations and explanations supporting such statement						
1. Statement								
	Novelty (N)		Yes: No:	Claims Claims	14-25 1-13			
	Inventive step (IS)		Yes: No:	Claims Claims	14-25 1-13			
	Industrial applicability (IA)		Yes: No:	Claims Claims	1-13 14-25			
2.	Cita	ations and explanations						

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see separate sheet

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#### SECTION III

1). Claims 14-25 relate to subject-matter considered by this Authority to be covered by the provisions of R.67.1(iv) PCT. Therefore, no opinion will be formulated with respect to the industrial applicability thereof (Art.34(4)(a)(i) PCT).

#### **SECTION V**

- 2). For the assessment of the present claims 14-25 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.
- 3). The following documents (D1-D3) are referred to in this written opinion; the numbering results from the order of citations found in the Search Report and it will be adhered to in the rest of the procedure. It will be made reference to the cited passage(s) for each citation unless otherwise specified.
- 4). a) Claims 1-13 directed to a device alledgely differ from the one of D1 (filed by some of the present Inventors) in that the power shall be lower than 30 mW/cm³. However, this cannot be regarding as a distinguishing feature over D1 insofar that the (emission) power can be, of course, adapted to the intended need and must rather be regarded as a feature for a process not for a device. The remaining features of claim 1 do not differ from D1. Accordingly, claims 1-13 lack novelty over D1 (Art. 33(2) PCT).
  - b) Process claim 14 differ from the one of D1 in that the power shall be lower than 30 mW/cm³. As D1 is silent as to the power, claim 14 is novel over D1 as well as D2-D3 (Art. 33(2) PCT.
  - c) Item 4 b) also applies to dependent claims 15-25 (Art. 33(2) PCT.
- 5). An inventive step can be acknowledge for claim 14 over D1 (closest prior art document) insofar as D1 was silent as to the possibility of inducing cell death in the treated cell at that low power level. In addition, healthy cells were identified as being less sensitive to the

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method that hyperproliferative cells, so that, said method more specifically induces apoptosis on the later (see [0028], Fig. 7-8). Accordingly, claim 14 meets the requi-rements of Art. 33(3) PCT). This also applies to dependent claims 15-25 (Art. 33(2) PCT.